AMENDMENTS TO THE CLAIMS:

Please cancel Claims 1-5, 16-21, 28-30 and 35, and amend Claims 6-15, 22-27 and 31-34 as follows:

Claims 1-5 Canceled.

6. (Currently Amended) An optical code decoding system comprising:

an imaging apparatus for obtaining and displaying video image signals comprising:

a handheld optical code reader including a two dimensional image sensor having means for outputing image data and video data at at least three frames per second, said handheld optical code reader further including ~~and~~ means for compressing said video data ~~obtained~~ output from the image sensor;

a host terminal with a communication port and display; ~~and~~

a narrow band width data link over which compressed video data from the handheld optical code reader ~~is~~ are communicated to a communication port of the host terminal; and

at least one processor for decoding an optical code captured by at least the video data.

7. (Currently Amended) The ~~apparatus~~ system of claim 6, wherein the imaging apparatus further ~~comprising~~ comprises means for detecting a command bar code for switching

the handheld optical code reader between an optical code reading mode and a video data communication mode.

8. (Currently Amended) The ~~apparatus~~ system of claim 6, wherein the handheld optical code reader includes a microprocessor and output driver for communication with the host terminal, and wherein the host terminal is a computer with a serial communication port for receiving the compressed video data and for receiving decoded information from optical codes read by the handheld code reader.

9. (Currently Amended) The ~~apparatus~~ system of claim 6, wherein the narrow band width data link is a cable connected between the handheld optical code reader and a serial communication port of the host terminal.

10. (Currently Amended) The ~~apparatus~~ system of claim 6, wherein the narrow band width data link is a radio frequency transmitter and receiver.

11. (Currently Amended) The ~~apparatus~~ system of claim 6, wherein the narrow band width data link is an infrared transmitter and receiver.

12. (Currently Amended) The ~~apparatus~~ system of claim 6, wherein the imaging apparatus further comprising means for detecting motion in a field of view of the handheld optical code reader.

13. (Currently Amended) The ~~apparatus~~ system of claim 12, wherein motion is detected by monitoring the bandwidth of the compressed video signal.

14. (Currently Amended) A method for reading an optical code disposed on an object and obtaining at least one physical parameter of said object, comprising the steps of:

providing an optical code reader configured for acquiring image data and video data at at least three frames per second; and

performing motion detection using ~~an~~ the optical code reader comprising the steps of:

positioning an image sensor of the optical code reader so that a field of view of the image sensor includes a region to be monitored for motion;

switching the optical code reader from an optical code reading mode to a ~~motion detection~~ video mode;

~~compressing~~ analysing video data in the field of view of the image sensor; ~~by~~

identifying changes between a set of frames of video data; and

monitoring the frequency of the changes between the set of frames of video data to identify frequency changes indicative of the movement of objects of interest in the field of view.

15. (Currently Amended) The method of claim 14, further comprising the steps of:

compressing the video data from the image sensor;

transmitting the compressed video data from the optical code reader to a terminal; and

displaying the image of the field of view of the image sensor at the terminal, and observing images at the terminal based on the detection of motion in the field of view.

Claims 16-21 Canceled.

22. (Currently Amended) The system of claim 6, wherein the ~~An optical system for a~~ handheld optical code reader further includes: ~~including an image sensor, comprising:~~

an objective lens located in an optical path of the code reader for focusing an image of an optical code onto the image sensor;

a carrier rotatable about an axis and having a sector radially outwardly located from the rotation axis through which optical codes are read, the carrier having a second sector located radially outwardly of the axis, said second sector containing an optical element, which when placed in the optical path changes the focal distance of the objective lens ~~optical system~~ to a focal distance more appropriate for producing video images with the handheld optical code reader; and

means for rotating the carrier for selectively positioning a selected one of first and said second sectors in the optical path.

23. (Currently Amended) The ~~optical~~ system of claim 22, wherein the first sector is open and the second sector contains a plano glass optical element which increases the focal distance of the optical system.

24. (Currently Amended) The ~~optical~~ system of claim 22, further comprising:

a third sector located radially outwardly of said axis and selectively positionable in the optical path of the system and containing a first monochrome filter; and

a fourth sector located radially outwardly of said axis and selectively positionable in the optical path of the system, containing a second, different monochrome filter, wherein the monochrome filters are employed to obtain image data to produce a color video display.

25. (Currently Amended) The ~~optical~~ system of claim 24, further comprising:

a laser pattern projector for projecting pattern from the handheld optical code reader, and

a fifth sector located radially outwardly of said axis and selectively positionable in the optical path of the system, containing an optical band pass filter approximately centered on a wavelength of the projected pattern.

26. (Currently Amended) The ~~optical~~ system of claim 25, further comprising means for monitoring the rotation of the carrier in response to the detection of the fifth sector being rotated into the optical path.

27. (Currently Amended) The ~~optical~~ system of claim 22, wherein the carrier is a wheel rotatable about a central axis thereof and divided into plural angular sectors, at least one of which sector being adapted for positioning in the optical path for imaging an optical code in a working depth of field of the optical code reader and at least two other sectors being adapted for focusing images on the image sensor from which a color video signal is derived.

Claims 28-30 Canceled.

31. (Currently Amended) ~~A method for~~ The method of claim 14, further comprising the step of:

measuring orthogonal dimensions of a rectangular solid object in ~~a~~ the field of view of ~~a handheld imager~~ the image sensor, comprising the steps of:

obtaining pixel information for the field of view of the ~~imager~~ image sensor;

determining a distance between the object and the ~~imager~~ image sensor;

determining the angles between edges of the rectangular solid meeting at a nearest corner of the object and determining an imaged length of edges of the rectangular solid to be measured from the pixel information; and

scaling the determined image length of the edges responsive to the determined angles and determined distance between the rectangular solid and the ~~imager~~ image sensor to obtain an approximation of the actual length of said edges.

32. (Currently Amended) The method of claim 31, wherein the distance between the object and the ~~imager~~ image sensor is determined from a detected image of an aiming pattern projected ~~by the imager~~ onto the object.

33. (Currently Amended) The method of claim 31, wherein the distance between the object and the ~~imager~~ image sensor is determined from at least one image dimension of an optical code symbol of known size on the object.

34. (Currently Amended) The method of claim 31, wherein the ~~handheld imager is~~ image sensor is incorporated within an imaging optical code reader.

Claim 35 Canceled.

Please add the following claim:

36. (Currently Presented) The system of claim 6, wherein the at least one processor further measures a physical parameter of an object from the image data and/or video data.